504

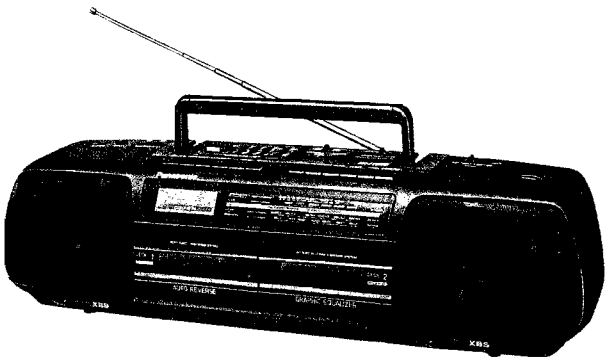
ORDER NO. MD9107076C2

Service Manual

Stereo Radio Cassette Recorder

Radio Cassette

RX-FT560



Color

(K) ..... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	F.R. Germany/Italy	

MECHANISM SERIES (WSC 28-02)

■ SPECIFICATIONS

General

Power Requirement:	AC; (E) (EG)....230V, 50Hz (EB)....230 ~ 240V, 50Hz Battery; 12V(8 UM-1,"R20/ LR20"Batteries)
Power Consumption:	25W (AC only)
Power Output:	40W (20Wx2)...PMPO
Speaker:	Woofer; 10cm PM Dynamic Speaker (2.7Ω) Tweeter; 1.5cm Ceramic Speaker
Jacks:	Input; CD/LINE IN;398 mV, 47 kΩ Output; HEADPHONE;32Ω,Ø3.5
Dimensions (W x H x D):	566 x 156 x 167 (mm)
Weight:	3.5kg without batteries

Radio Section:

Radio Frequency Range:	FM; 87.5 ~ 108 MHz MW; 520 ~ 1610 kHz SW;5.9 ~ 18 MHz LW;148.5 ~ 285kHz
Intermediate Frequency:	FM; 10.7 MHz AM; 459 kHz
Sensitivity:	FM; 2.2 μV/50 mW output MW; 200 μV/m/50 mW output SW; 7.0 μV/50 mW output LW; 200 μV/m/50 mW output

Tape Deck Section:	**TAPE 1**
Frequency Response:	70 ~ 12,000 Hz
Tape Speed:	4.8 cm/s
Track System:	4-Track 2-Channel stereo playback

Tape Deck Section:	**Tape 2**
Frequency Response:	70 ~ 12,000 Hz
Tape Speed:	4.8 cm/s
Recording System:	AC bias, Magnet erase
Track System:	4-track 2-channel stereo recording and playback.

Notes:

1. Weights and dimensions shown are approximate.
2. Design and specifications are subject to change without notice.

Panasonic

5041

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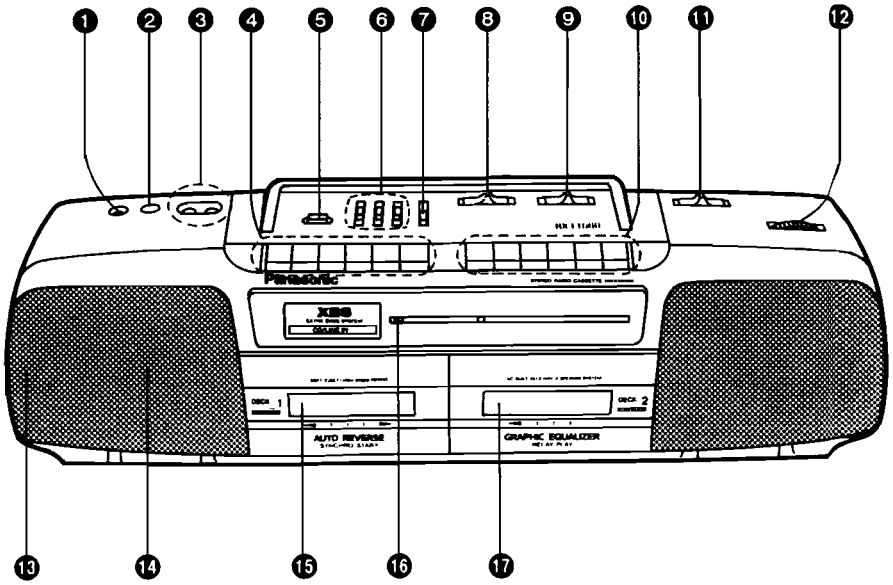
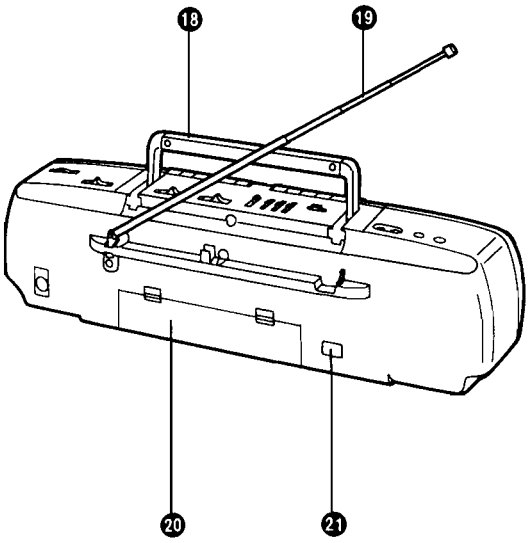
■ LOCATION OF CONTROLS



❶ Headphones Jack (PHONES) (Ø3.5,32Ω)
❷ Built-in Microphone (MIC)
❸ CD / Line Input Jacks (CD / LINE IN) (398 mV, 47 kΩ)
❹ Deck 1 (For Playback)
- Deck 1 Reverse Mode Selector (REV MODE)
- Stop / Eject Button (STOP / EJECT)
- Fast Buttons (◀◀ - FAST - ▶▶)
- Playback Button (◀ ▶PLAY)
- Direction Button (DIR)

❺ Extra Bass System Switch (XBS)
❻ Graphic Equalizer Controls (GRAPHIC EQUALIZER)
❼ Volume Control (VOLUME)
❽ Function Selector (SELECTOR)
❾ Editing / FM Mode Selector / Beat Proof Switch (EDITING / FM MODE / B.P)
❿ DECK 2 (For Playback/Recording)
- Pause Button (⏸ PAUSE)
- Stop / Eject Button (STOP/EJECT)
- Fast Forward / Cue Button (◀◀ / CUE)
- Rewind / Review Button (▶▶ / REV)
- Playback Button (◀ PLAY)
- Record Button (• RECORD)

⓫ Band Selector (BAND) (FM, LW, MW, SW)
⓬ Tuning Control (TUNING)
⓭ Speakers [Tweeter] (1.5cm)
⓮ Speakers [Woofer] (10cm, 2.7Ω)



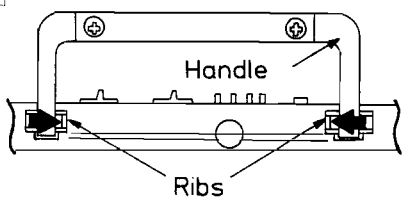
⓯ Deck 1 Cassette Compartment
⓰ FM Stereo Indicator (FM STEREO)
⓱ Deck 2 Cassette Compartment
⓲ Handle
⓳ Telescopic Antenna
⓴ Battery Compartment
㉑ AC Socket (AC IN ~)

■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1 Removal of the Handle

Procedure 1

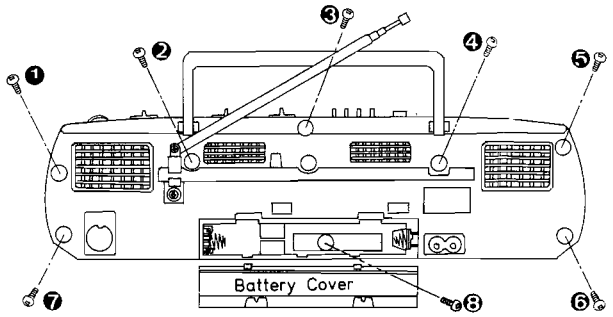
1. Release the 2 ribs
2. Slide out the handle.



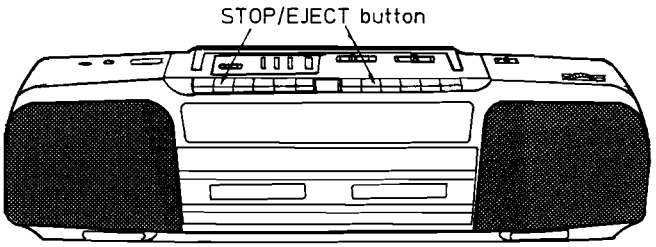
Ref. No. 2 Removal of the Front Cabinet

Procedure 2

1. Remove the battery cover.
2. Remove 8 screws (❶ ~ ❽).



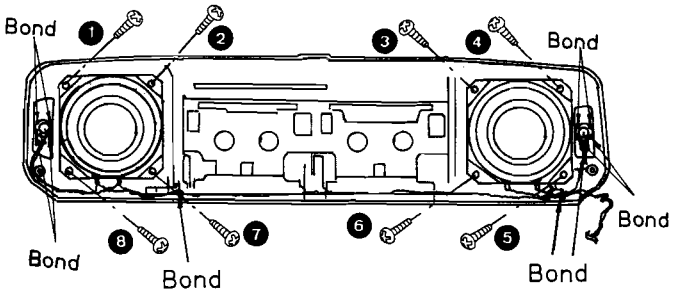
3. Press the STOP/EJECT button to open the cassette compartment.
4. Remove the front cabinet.



Ref. No. 3 Removal of the Speakers

Procedure 2→3

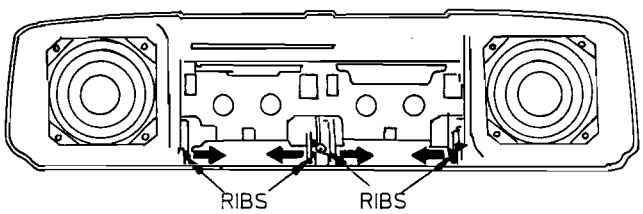
1. Remove the black bond.
2. Remove 8 screws (❶ ~ ❽)



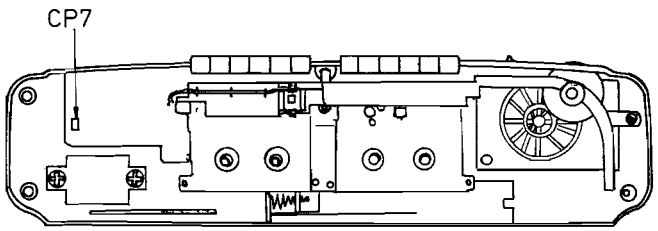
Ref. No. 4 Removal of the Cassette Compartment

Procedure 2→4

• Remove 4 ribs in the direction of arrows.



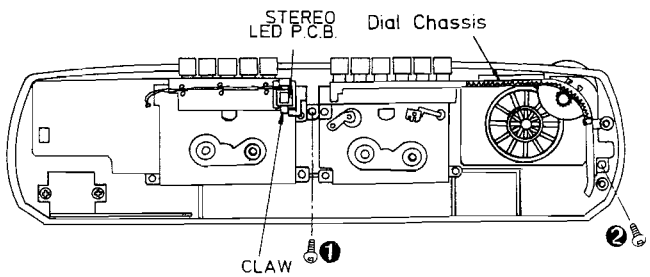
5. Remove the connector CP7.



Ref. No. 5 Removal of the Dial Chassis

Procedure 2→5

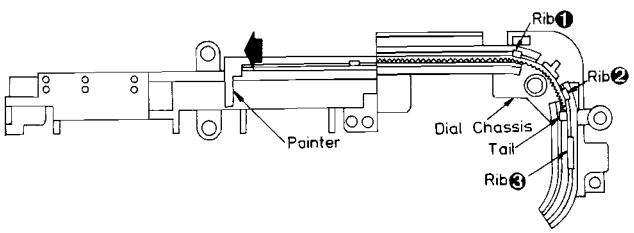
1. Release the claw and remove the STEREO LED P.C.B.
2. Remove 2 screws (❶ ~ ❷).



Ref. No. 6 Removal of the Pointer

Procedure 2→5→6

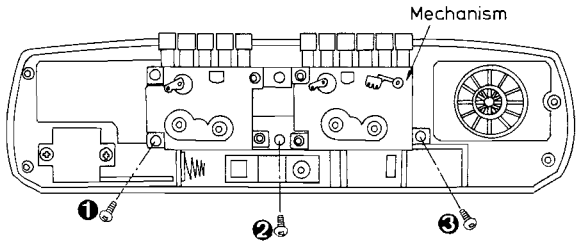
1. Push the pointer to the left until the tail is in between rib ❷ and rib ❸.
2. Lift up the tail of pointer and push to the right.
3. Ensure the teeth is out of all the ribs.
4. Push the pointer all the way to the left.



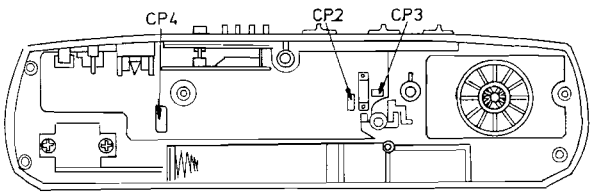
Ref. No.7 Removal of the Mechanism

Procedure
2 → 5 → 7

1. Remove 3 screw (❶ ~ ❸)



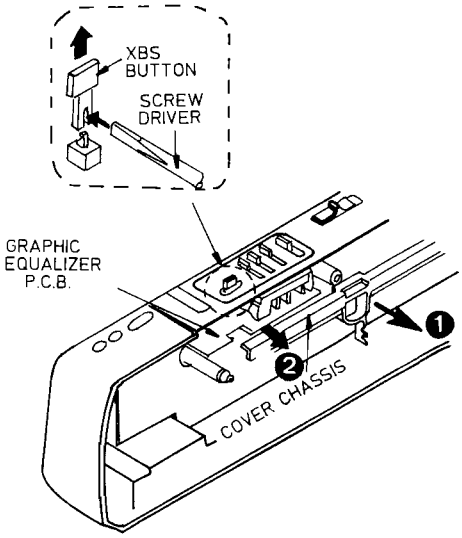
- Remove 3 connectors (CP2, CP3, CP4)



Ref. No.8 Removal of the Graphic Equalizer P.C.B.

Procedure
2 → 5 → 7 → 8

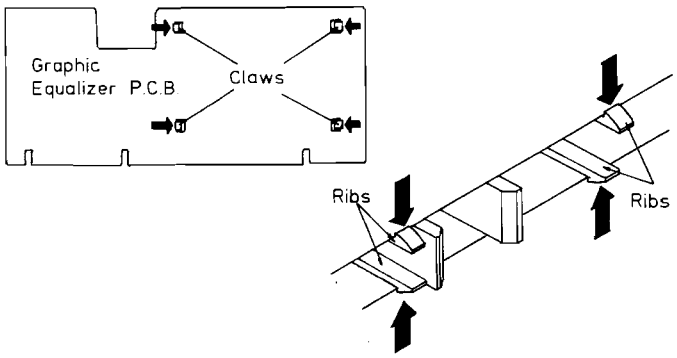
1. Remove the cover chassis in the direction of arrow ❶.
2. Pull out the XBS button in the direction of arrow.
3. Pull out the Graphic Equalizer P.C.B. in the direction of arrow ❷.



Ref. No.9 Removal of the Graphic Equalizer Chassis and Knobs

Procedure
2 → 5 → 7 → 8 → 9

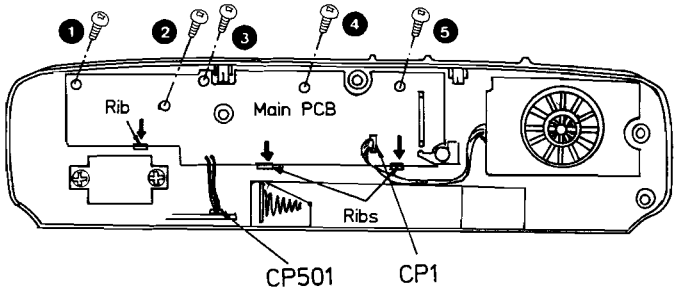
1. Release claws in the direction of arrows and remove the chassis.
2. Release the ribs in the direction of arrows.



Ref. No.10 Removal of the Main P.C.B.

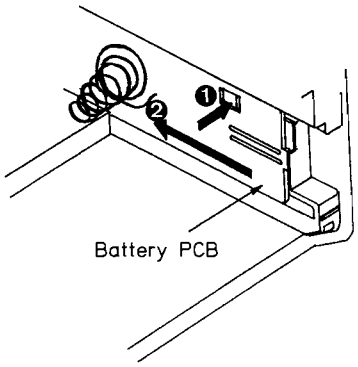
Procedure
2 → 5 → 7 → 8 → 10

1. Remove the connectors (CP1 and CP501).
2. Remove 5 screws (❶ ~ ❺).
3. Release the ribs and remove the main P.C.B.



Ref. No.11 Removal of the Battery P.C.B.

Procedure
2 → 11

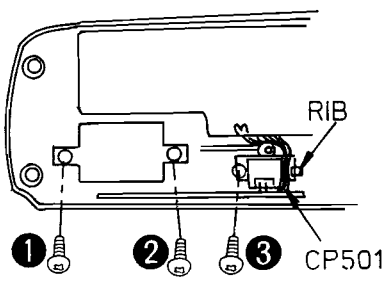


- Release the claw in the direction of arrow ❶ and then remove the battery P.C.B. in the direction of arrow ❷.

Ref. No.12 Removal of the Power P.C.B.

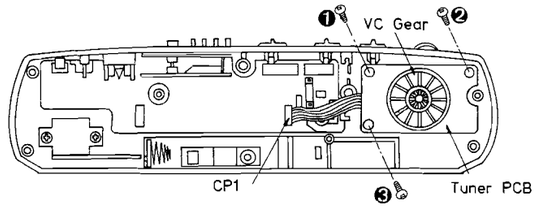
Procedure
2 → 12

1. Remove 3 screw (❶ ~ ❸)
2. Release the rib and remove the transformer.

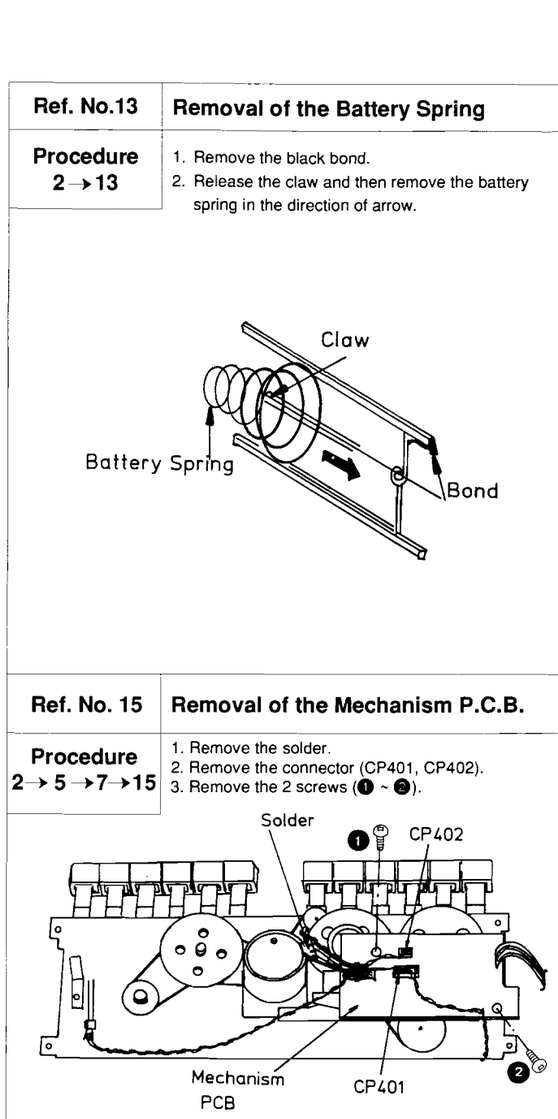


Ref. No.13	Removal of the Battery Spring
Procedure 2→13	1. Remove the black bond. 2. Release the claw and then remove the battery spring in the direction of arrow.

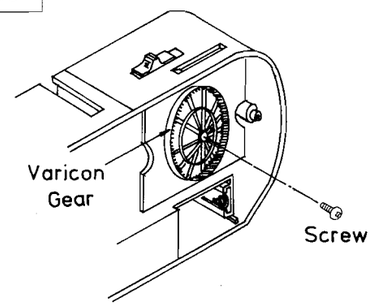
Ref. No. 14	Removal of the Tuner P.C.B.
Procedure 2→5→7→14	1. Remove 3 screws (❶ ~ ❸) 2. Remove the flat cable by pressing CP1.



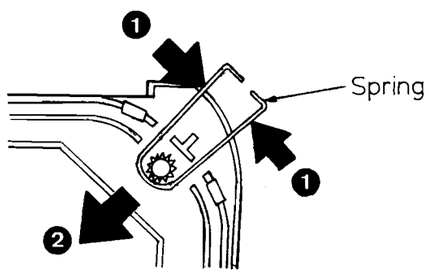
Ref. No. 15	Removal of the Mechanism P.C.B.
Procedure 2→5→7→15	1. Remove the solder. 2. Remove the connector (CP401, CP402). 3. Remove the 2 screws (❶ ~ ❷).

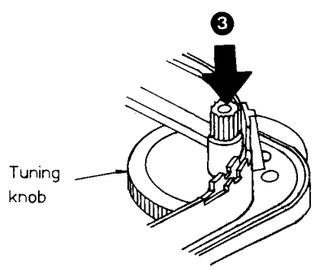


Ref. No. 16	Removal of Varicon Gear
Procedure 2→5→16	1. Remove the screw and pull out the varicon gear.

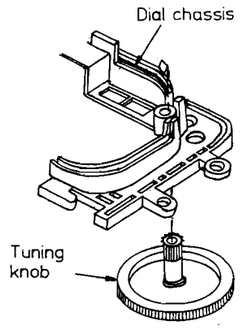


Ref. No. 17	Removal of tuning knob
Procedure 2→5→6→17	1. Remove the spring in the directon of arrow ❶ then ❷. 2. Remove the tuning knob in the direction of arrow ❸.

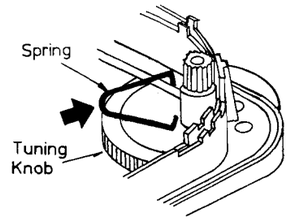




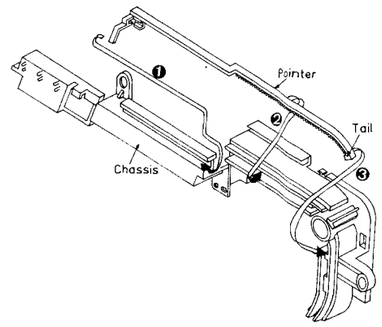
■ DIAL CHASSIS ASSEMBLY



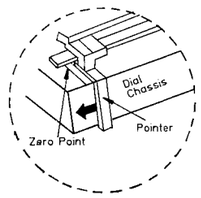
1. Install the tuning knob in the dial chassis.

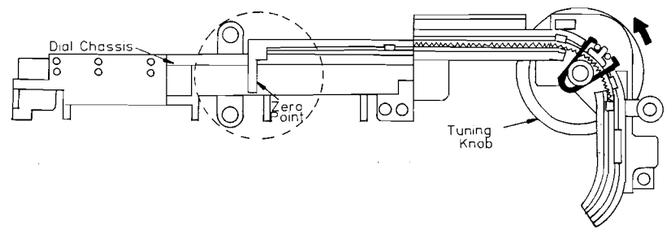


2. Install the spring in the tuning knob.

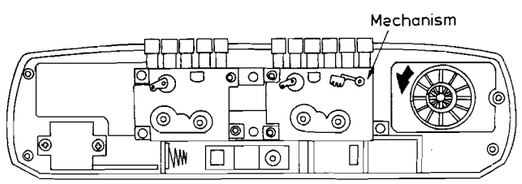


3. Install the pointer in the direction of arrow ❶, follow by ❷, then ❸.

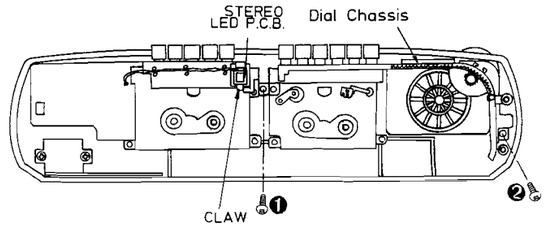




4. Turn the tuning knob fully anticlockwise to the zero point.



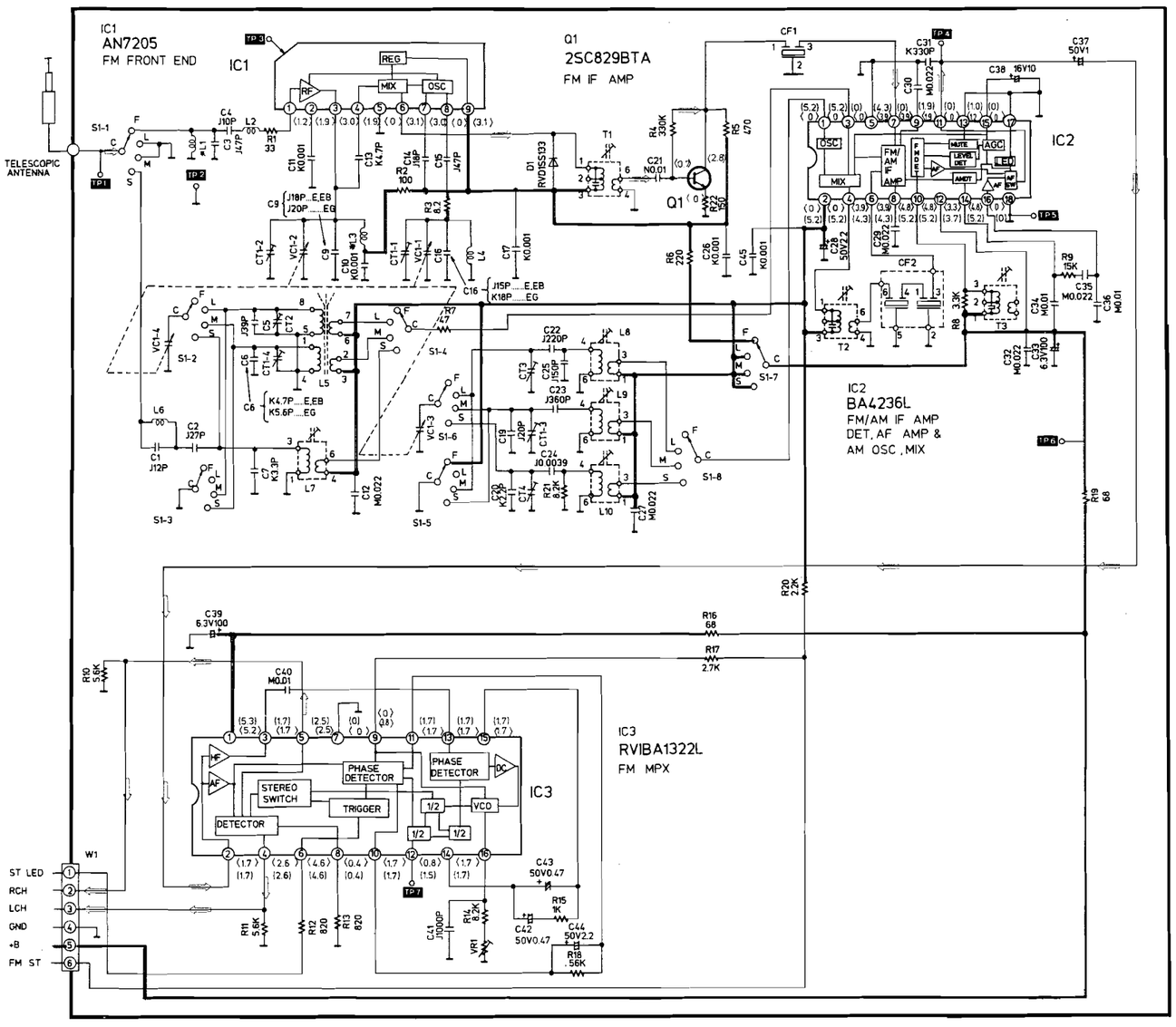
5. turn the tuning gear on the tuner P.C.B. fully anticlockwise.



6. Install the dial chassis in the cabinet and then replace 2 screws.

■ SCHEMATIC DIAGRAM • TUNER CIRCUIT (SEE PARTS LIST ON PAGE 23 ~ 27)

A TUNER P.C.B



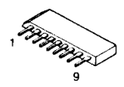
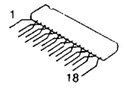
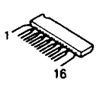
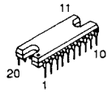
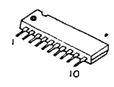
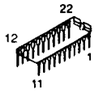
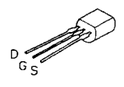
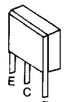
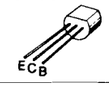
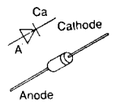
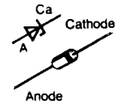
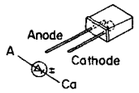
NOTES:

1. S1-1 ~ S1-8 : BAND select switch in "FM" position. (F...FM, L...LW, M...MW, S...SW)
2. S301-1 ~ S301-2 : Editing mode/Beat proof switch in "MIC/MONO/**I**" position. (M...MIC/MONO/**I**, N...NORMAL/STEREO/**II**, H...HIGH/**STEREO/II**)
3. S302-1 ~ S302-6 : Record/Playback switch in "PLAYBACK" position. (R...RECORD, P...PLAYBACK).
4. S303-1 ~ S303-4 : Function selector switch in "TAPE/POWER OFF" position (T...TAPE/POWER OFF, R...RADIO, L...CD/LINE-IN)
5. S305 : Deck 1 PLAY switch
6. S306 : Deck 1 MOTOR switch
7. S307 : Deck 2 MOTOR switch
8. S370-1 ~ S370-2 : XBS switch in "OFF" position.
9. S501 : AC/DC select switch in "DC" position.
10. VR1 : FM VCO adjustment VR.
11. VR371-1 ~ VR371-2 : Graphic Equalizer VR (100 Hz)
12. VR372-1 ~ VR372-2 : Graphic Equalizer VR (1 kHz)
13. VR373-1 ~ VR373-2 : Graphic Equalizer VR (10 kHz)
14. VR374-1 ~ VR374-2 : Volume Control VR
15. VR401 : Tape Speed Adjustment VR
16. DC voltage measurements are taken with electronic voltmeter.
    The negative terminal of the battery provides negative meter connection point.
    No mark...PLAYBACK, [ ]...RECORD, ( )...AM, < >...FM.
17. Battery current : Vol. min.....56mA (Radio)
    136mA (Tape Playback)
    Vol. max.....650mA (Radio)
    840mA (Tape Playback)
    890mA (Recording)
    Measurement Instruction
    (Radio : FM 60dB, 30% Mod.
    Tape : 315 Hz, 0 dB)
18. Important Safety notice:
    Components identified by ⚠ mark have special characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.
19. The mark (■) shows test point eg: TP1 = test point 1.

• This schematic diagram may be modified at any time with the development of new technology.

.... FM SIGNAL LINE
.... RECORD SIGNAL LINE
.... + B LINE
.... PLAYBACK SIGNAL LINE
.... PLAYBACK/ FM SIGNAL LINE

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

AN7205	BA4236L	RVIBA1332L	RVILA4108R	BA3310N	AN7330K
					
2SK301QTA	BA1A4MTA BN1L3NTA	2SC1684RTA 2SC1684S 2SC2001K1TA 2SA564RTA	RVD1SS133 RVD1SR35	RVDMTZ6R8B	RVDSLB55VR
					

11 12 13 14 15 16 17 18 19

B MAIN CIRCUIT

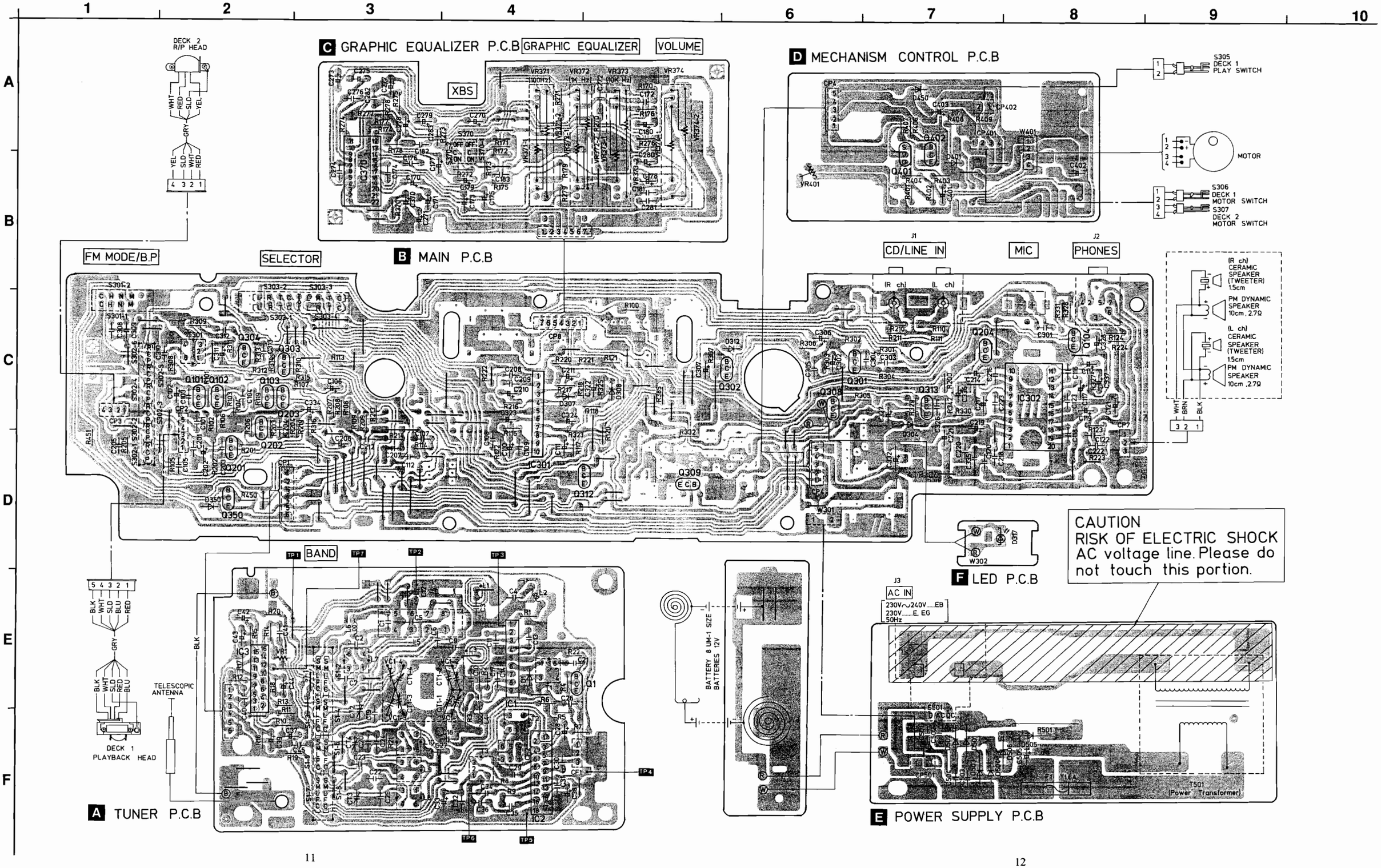
C GRAPHIC EQUALIZER CIRCUIT

F LED CIRCUIT

D MECHANISM CONTROL CIRCUIT

E POWER SUPPLY CIRCUIT

■ CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



■ MEASUREMENT AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set band switch to LW, MW, SW or FM.
3. Set function selector to radio or tape.
4. Set power source voltage to 12V DC.
5. Set FM mode/B.P switch to STEREO/II.
6. Output of signal generator should be no higher than necessary to obtain an output reading.

■ LW, MW and SW ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
			AM-IF ALIGNMENT				
(1)	MW	Fashion a loop of several turns of wire and radiate signal into loop ant. of the receiver.	459kHz 30% Mod. at 400Hz	Point of non-interference. (on/ about 600 kHz)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	T2 (AM IFT)	Adjust for maximum output
			LW-RF ALIGNMENT				
(2)	LW	"	(E)(EB)...136kHz (EG)...137±5kHz	Tuning capacitor fully closed.	"	L8 (LW OSC Coil)	Adjust for maximum output
(3)	LW	"	(E)(EB)..297kHz (EG)...297±5kHz	Tuning capacitor fully open.	"	CT3 (LW OSC Trimmer)	"
(4)	LW	"	145 kHz	Tune to signal.	"	(*1) L5-1(LW ANT Coil)	Adjust for maximum output. Adjust L5-1 by moving the ferrite core.
(5)	LW	"	285 kHz	"	"	CT2(LW ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).
	(*1) Cement antenna ferrite core with wax after completing alignment.						
			MW-RF ALIGNMENT				
(6)	MW	"	(E)(EB)...511kHz (EG)...514±3kHz	Tuning capacitor fully closed.	"	L9(MW OSC Coil)	Adjust for maximum output.
(7)	MW	"	(E)(EB)..1650kHz (EG)..1639±5kHz	Tuning capacitor fully open.	"	CT1-3 (MW OSC Trimmer)	"
(8)	MW	"	550 kHz	Tune to signal.	"	*(2) L5-2(MW ANT Coil)	Adjust for maximum output. Adjust L5-2 by moving the ferrite core.
(9)	MW	"	1500 kHz	"	"	CT1-4 (AM ANT Trimmer)	Adjust for maximum output. Repeat steps (6) ~ (9).
	(*2) Cement antenna ferrite core with wax after completing alignment.						

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
			SW-RF ALIGNMENT				
(10)	SW	Connect to test point TP1 through ceramic capacitor (10 pF). Negative side to test point TP2.	5.75MHz	Tuning capacitor fully closed.	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	L10 (SW OSC Coil)	Adjust for maximum output
(11)	SW		18.8 MHz	Tuning capacitor fully open.	"	CT4 (SW OSC Trimmer)	"
(12)	SW		5.9 MHz	Tune to signal.	"	L7 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10~(12)

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
			FM-IF ALIGNMENT				
(13)	FM	High side thru. 0.001 µF to test point TP3. Negative side to test point TP2.	10.7 MHz (SWP)	Point of non-interference. (on/ about 90 MHz)	Connect vert. amp. of scope to test point TP4. Negative side to test point TP5	T1 (FM 1st IFT)	Wave form is shown in Fig. 3.
(14)	FM	"	"	"	"	T3 (FM 2nd IFT)	Wave form is shown in Fig. 4.
			FM-RF ALIGNMENT				
(15)	FM	Connect to test point TP1 through FM dummy antenna Negative side to test point TP2	(E)(EB)...86.2MHz (EG)...87.35MHz ±50kHz	Variable capacitor fully closed.	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	L4(FM OSC Coil)	(*2)Adjust for maximum output.
(16)	FM		(E)(EB)109.2MHz (EG) 108.25 MHz ±50kHz	Variable capacitor fully open.	"	CT1-1(FM OSC Trimmer)	"
(17)	FM		106 MHz	Tune to signal.	"	CT1-2 (FM ANT Trimmer)	Adjust for maximum output. Repeat steps (15) ~ (17).
	(*2) three output responses will be present; proper tuning is the center frequency.						

■ SEPARATION ALIGNMENT

FM SIGNAL GENERTOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
98 MHz, 60 dB (CW) Connect to test point TP1 through FM dummy antenna. Negative side to TP2	TP7 ... (+) TP5 ... (-)	VR1	19kHz	Adjust VR1, for 19kHz ± 50 Hz reading on frequency counter.

■ HEAD AZIMUTH ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCFM (8 kHz, -20 dB)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Azimuth screw (Shown in Fig.5)	Maximum output.	• Playback mode.

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR: CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR: FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
				SW-RF ALIGNMENT			
(10)	SW	Connect to test point TP1 through ceramic capacitor (10 pF). Negative side to test point TP2.	5.75MHz	Tuning capacitor fully closed.	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	L10 (SW OSC Coil)	Adjust for maximum output
(11)	SW		18.8 MHz	Tuning capacitor fully open.	"	CT4 (SW OSC Trimmer)	"
(12)	SW		5.9 MHz	Tune to signal.	"	L7 (SW ANT Coil)	Adjust for maximum output. Repeat steps (10~(12)

■ FM ALIGNMENT

	BAND	SIGNAL GENERATOR or SWEEP GENERATOR: CONNECTIONS	SIGNAL GENERATOR or SWEEP GENERATOR: FREQUENCY	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
				FM-IF ALIGNMENT			
(13)	FM	High side thru. 0.001 µF to test point TP3. Negative side to test point TP2.	10.7 MHz (SWP)	Point of non-interference. (on/ about 90 MHz)	Connect vert. amp. of scope to test point TP4. Negative side to test point TP5	T1 (FM 1st IFT)	Wave form is shown in Fig. 3.
(14)	FM	"	"	"	"	T3 (FM 2nd IFT)	Wave form is shown in Fig. 4.
				FM-RF ALIGNMENT			
(15)	FM	Connect to test point TP1 through FM dummy antenna Negative side to test point TP2	(E)(EB)...86.2MHz (EG)...87.35MHz ±50kHz	Variable capacitor fully closed.	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	L4(FM OSC Coil)	(*2)Adjust for maximum output.
(16)	FM		(E)(EB)109.2MHz (EG) 108.25 MHz ±50kHz	Variable capacitor fully open.	"	CT1-1(FM OSC Trimmer)	"
(17)	FM		106 MHz	Tune to signal.	"	CT1-2 (FM ANT Trimmer)	Adjust for maximum output. Repeat steps (15) ~ (17).

(*2) three output responses will be present; proper tuning is the center frequency.

■ SEPARATION ALIGNMENT

FM SIGNAL GENERTOR SOURCE CONNECTION	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
98 MHz, 60 dB (CW) Connect to test point TP1 through FM dummy antenna. Negative side to TP2	TP7 ... (+) TP5 ... (-)	VR1	19kHz	Adjust VR1, for 19kHz ± 50 Hz reading on frequency counter.

■ HEAD AZIMUTH ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCFM (8 kHz, -20 dB)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	Azimuth screw (Shown in Fig.5)	Maximum output.	• Playback mode.

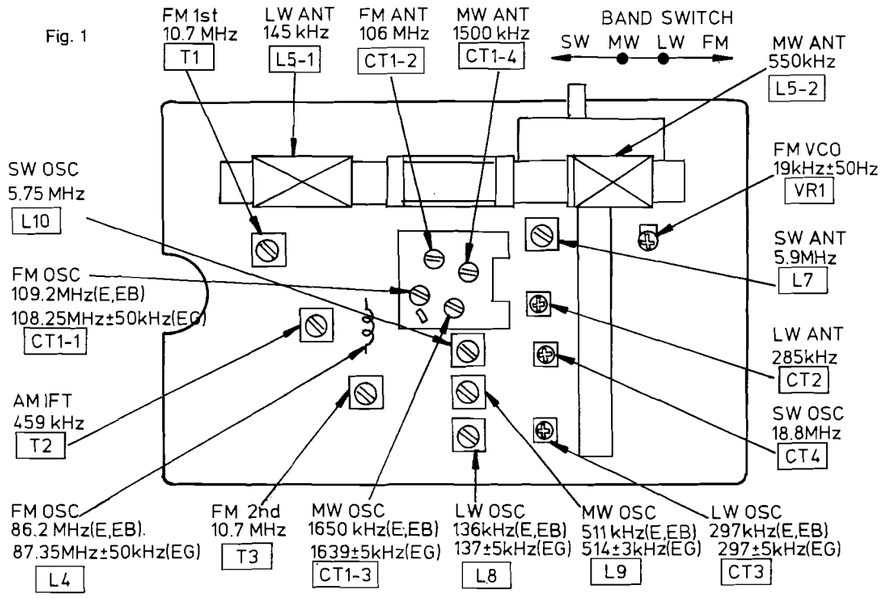
■ TAPE SPEED ADJUSTMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
QZZCWAT (3 kHz)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.)	VR401 (Shown in Fig.6)	**Normal Speed Adjustment** 1. Insert a test tape (QZZCWAT) in Tape 2 and play it back. 2. Adjust VR401 until the measured value becomes 3000 ±30Hz. 3. Check Tape 1 in the same way to make sure it satisfies the specification. Tape 1... ±50Hz of the speed of Tape2. If it doesn't repeat steps 1 and 2 above. **Note:** This set uses one drive motor, so be sure to perform the adjustment in Tape 2. **High Speed Measurement** 4. Insert the playback tape into Tape 1 and the editing tape into Tape 2. 5. Set the Editing Mode Selector to the "HIGH" position. 6. Press the Tape 2 Pause button, then press the Record Button. 7. Press the Tape 1 Playback Button. • Editing is started by means of the Synchro-Start function. 8. Check to be sure that the measured speed is at least **1.7 times** faster than normal speed.

■ ALIGNMENT POINT

• Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

Fig. 1



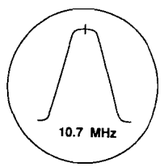


Fig. 3

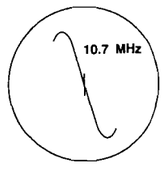


Fig. 4

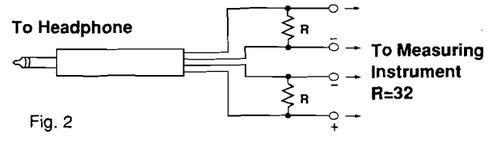


Fig. 2

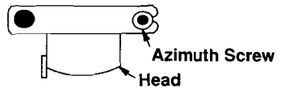


Fig. 5

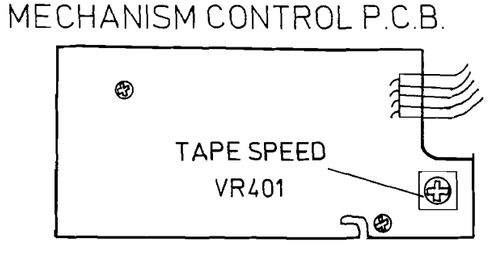


Fig. 6

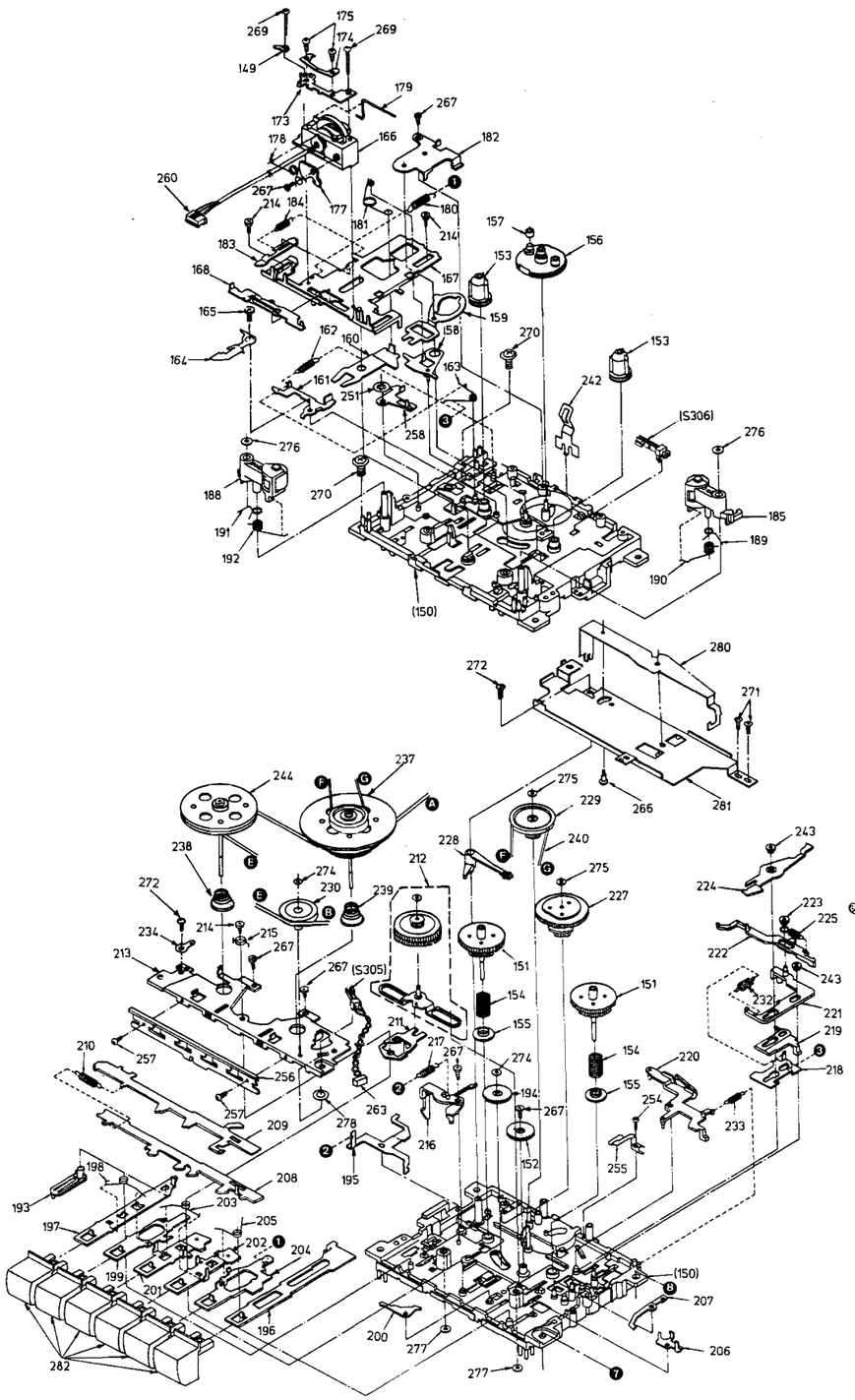
RX-FT560 RX-FT560

■ MECHANISM PARTS LOCATION

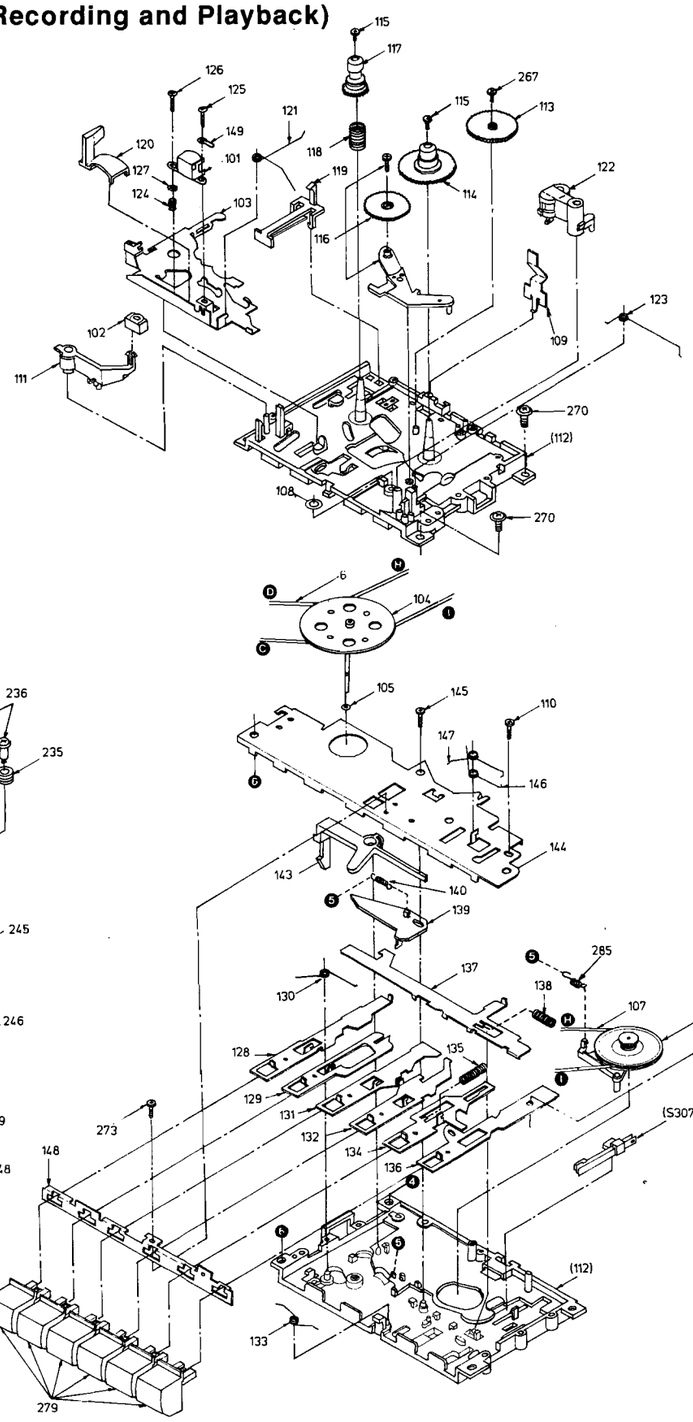
1 2 3 4 5 6 7 8 9 10

A B C D E F

DECK 1 (For Playback/Auto Reverse)



DECK 2 (For Recording and Playback)



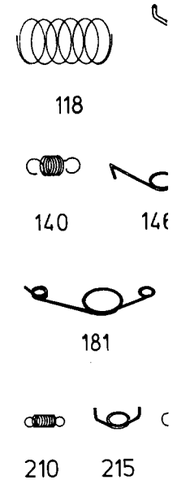
■ SPRING L

〈DECK 1〉

〈DECK 2〉

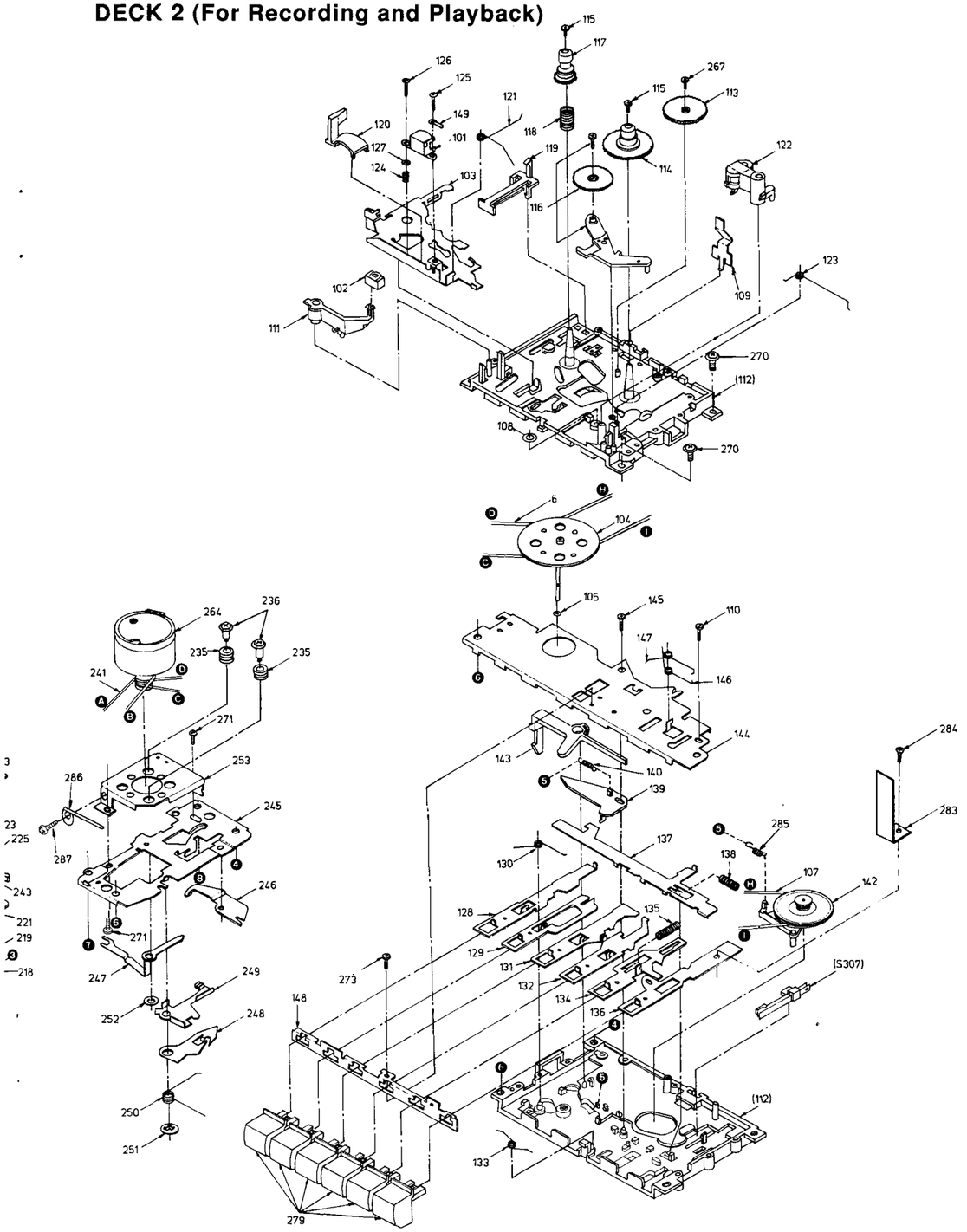
■ SPRING IL

The illustration show
(The illustration show



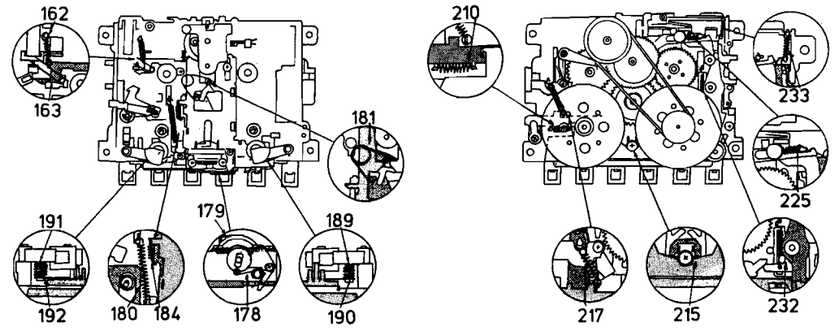
6 7 8 9 10

DECK 2 (For Recording and Playback)

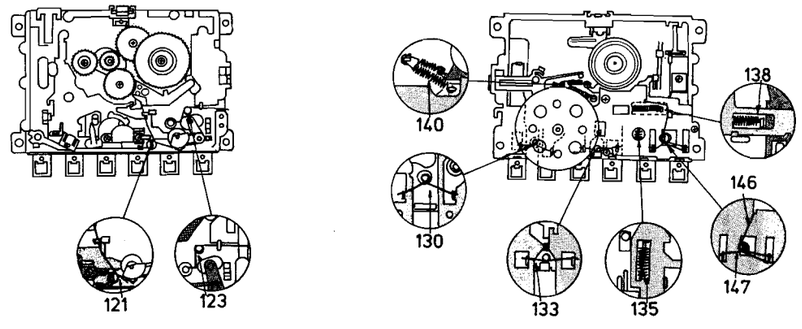


■ SPRING LOCATION

〈DECK 1〉

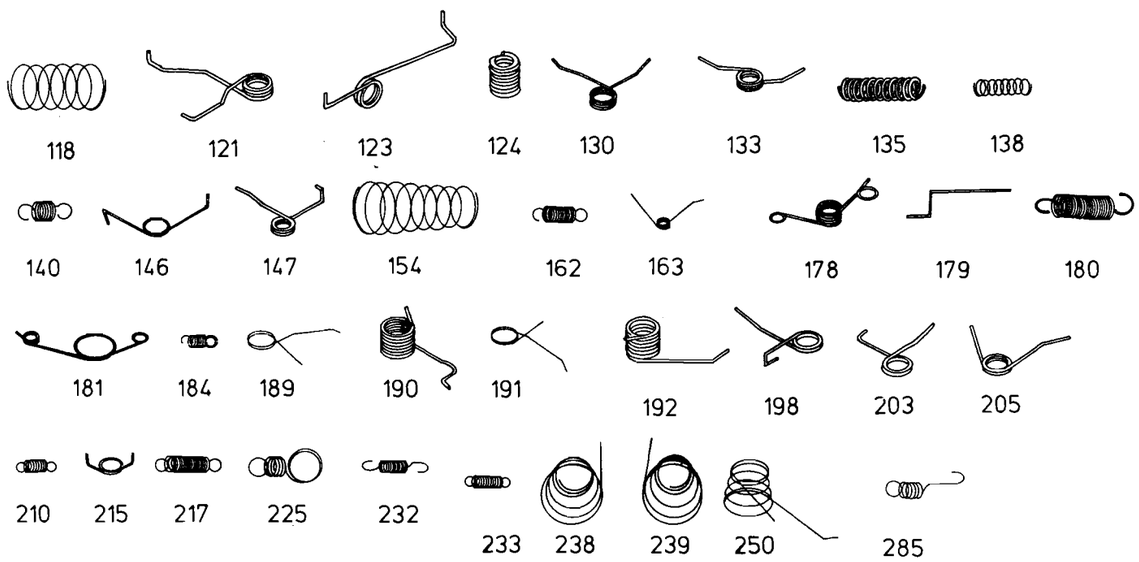


〈DECK 2〉



■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism).



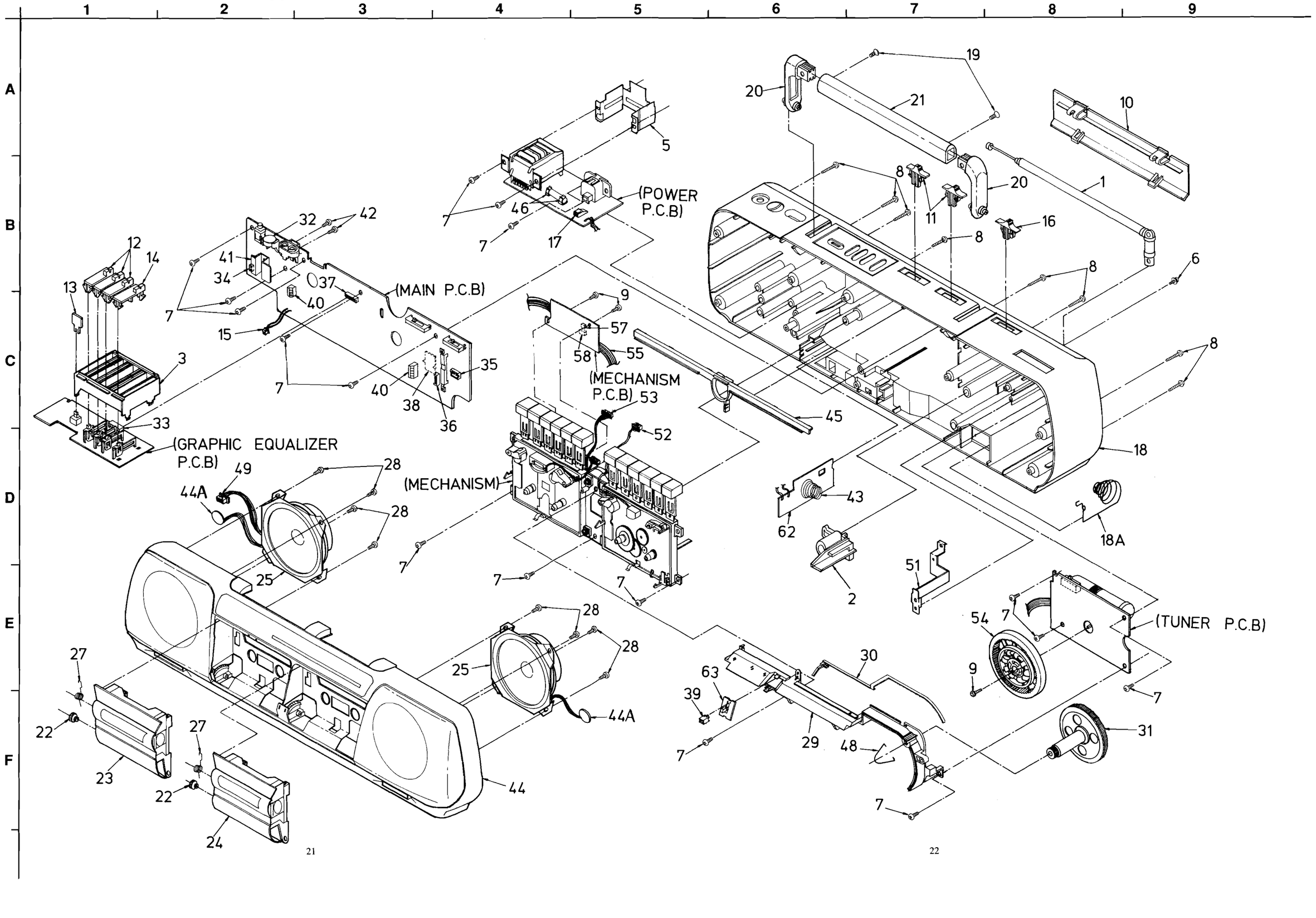
Ref No.	Part No.	Part Name & Description	Remarks
		MECHANISM	
101	RJH4C29MZAS	R/P HEAD	[M]
102	RBR2CY004	E HEAD	
103	RFU195ZA	HEAD CHASSIS ASS'Y	[M]
104	RFF82ZA	FLYWHEEL ASS'Y	[M]
105	RFN114ZA	WASHER	
106	RFB117ZA	BELT	[M]
107	RFB118ZA	BELT	[M]
108	RFN168ZA	WASHER	
109	RFS632ZA	SPRING PLATE	
110	RFE306ZA	SCREW	
111	RFY691ZA	E HEAD ARM	
112	RFU196ZA	MECHA CHASSIS ASS'Y	[M]
113	RFG153ZA	F GEAR	[M]
114	RFJ93ZA	T REEL ASS'Y	
115	RFE307ZA	B BUSH	
116	RFK27ZA	IDLER ARM ASS'Y	[M]
117	RFJ61ZA	S REEL	
118	RFS631ZA	SPRING	
119	RFY692ZA	INTERLOCK PLATE	
120	RFE295ZA	SENSOR ARM	
121	RFS644ZA	SPRING	
122	RFR66ZA	PINCH ARM ASS'Y	[M]
123	RFS634ZA	EARTH SPRING	
124	RFS635ZA	SPRING	
125	RFE537ZA	SCREW	[M]
126	RFE538ZA	SCREW	[M]
127	RFN222ZA	WASHER	[M]
128	RFY970ZA	PAUSE LEVER	[M]
129	RFY770ZA	SE LEVER	
130	RFS636ZA	SPRING	
131	RFY771ZA	RF LEVER	
132	RFY971ZA	REW LEVER	[M]
133	RFS904ZA	SPRING	[M]
134	RFY972ZA	PLAY LEVER	[M]
135	RFS905ZA	SPRING	[M]
136	RFY774ZA	REC LEVER	
137	RFY700ZA	FUNCTION PLATE	
138	RFS639ZA	SPRING	
139	RFY701ZA	S MOVEMENT PLATE	
140	RFS664ZA	SPRING	
142	RFQ69ZA	DRIVE PULLEY ASS'Y	[M]
143	RFY703ZA	EJECT LEVER	
144	RFY973ZA	LEVER HOLDER	[M]
145	RFE308ZA	C BUSH	
146	RFS640ZA	SPRING	
147	RFS626ZA	SPRING	
148	RFY974ZA	LEVER HOLDER	[M]

Ref No.	Part No.	Part Name & Description	Remarks
149	RFE171ZA	LUG PLATE	
150	RFU197ZA	MECHA CHASSIS ASS'Y	[M]
151	RFG154ZA	REEL GEAR	[M]
152	RFG144ZA	FWD GEAR	[M]
153	RFJ94ZA	REEL CAP	[M]
154	RFS864ZA	SPRING	[M]
155	RFX176ZA	REEL D BUSH	[M]
156	RFG155ZA	REVERSE GEAR ASS'Y	[M]
157	RFX141ZA	B COLLER	[M]
158	RFD410ZA	IDLER PLATE	[M]
159	RFY975ZA	REVERSE A PLATE	[M]
160	RFY976ZA	REVERSE B PLATE	[M]
161	RFD413ZA	MO JOINT PLATE	[M]
162	RFS906ZA	SPRING	[M]
163	RFS866ZA	SPRING	[M]
164	RFX179ZA	STOPPER	[M]
165	RFE531ZA	SCREW	[M]
166	RFH31ZA	HEAD BLOCK ASS'Y	[M]
167	RFU198ZA	CHASSIS HEAD	[M]
168	RFY977ZA	SLIDE PLATE	[M]
173	RFY978ZA	AZIMUTH PLATE	[M]
174	RFY979ZA	AZIMUTH SP PLATE	[M]
175	RFE533ZA	AZIMUTH SCREW	[M]
177	RFG148ZA	HEAD B GEAR	[M]
178	RFS907ZA	SPRING	[M]
179	RFS908ZA	SPRING	[M]
180	RFS870ZA	SPRING	[M]
181	RFS909ZA	SPRING	[M]
182	RFG156ZA	GEAR HOLDER	[M]
183	RFY980ZA	GEAR STOP LEVER	[M]
184	RFS892ZA	SPRING	[M]
185	RFR67ZA	PINCH ROLLER ASS'Y (R)	[M]
188	RFR68ZA	PINCH ROLLER ASS'Y (L)	[M]
189	RFS876ZA	SPRING	[M]
190	RFS875ZA	SPRING	[M]
191	RFS878ZA	SPRING	[M]
192	RFS910ZA	SPRING	[M]
193	RFY935ZA	PAUSE STOP ARM	[M]
194	RFG149ZA	IDLER GEAR	[M]
195	RFY981ZA	SENSOR STOP GEAR	[M]
196	RFY982ZA	DR LEVER	[M]
197	RFY934ZA	PAUSE LEVER	[M]
198	RFS911ZA	SPRING	[M]
199	RFY937ZA	STOP LEVER	[M]
200	RFY940ZA	CUE STOP ARM	[M]
201	RFY983ZA	FF LEVER	[M]
202	RFY984ZA	REW LEVER	[M]
203	RFS879ZA	SPRING	[M]
204	RFY941ZA	PLAY B LEVER	[M]
205	RFS912ZA	SPRING	[M]

Ref No.	Part No.	Part Name & Description	Remarks
206	RFD421ZA	SWITCH A PLATE	[M]
207	RFY985ZA	SWITCH B PLATE	[M]
208	RFY986ZA	FUNCTION A PLATE	[M]
209	RFY987ZA	FUNCTION B PLATE	[M]
210	RFS883ZA	SPRING	[M]
211	RFD423ZA	FF IDLER LEVER	[M]
212	RFK29ZA	FF IDLER PLATE ASS'Y	[M]
213	RFY988ZA	LEVER HOLDER ASS'Y	[M]
214	RFE532ZA	SCREW	[M]
215	RFS884ZA	SPRING	[M]
216	RFY989ZA	EJECT LEVER	[M]
217	RFS913ZA	SPRING	[M]
218	RFD424ZA	MO PLATE	[M]
219	RFY990ZA	MO LEVER	[M]
220	RFY991ZA	DR LEVER	[M]
221	RFY948ZA	SENSOR LEVER	[M]
222	RFY949ZA	SENSOR B LEVER	[M]
223	RFE539ZA	BUSH	[M]
224	RFY950ZA	CANCEL B LEVER	[M]
225	RFS887ZA	SPRING	[M]
227	RFK28ZA	TENSION B ASS'Y	[M]
228	RFY951ZA	SENSOR STOP ARM	[M]
229	RFQ66ZA	DRIVE PULLEY	[M]
230	RFQ70ZA	PULLEY	[M]
232	RFS888ZA	SPRING	[M]
233	RFS915ZA	SPRING	[M]
234	RFY992ZA	LUG PLATE	[M]
235	RFI24ZA	RUBBER CUSHION	
236	RFE142ZA	SCREW	
237	RFF83ZA	FLYWHEEL ASS'Y	[M]
238	RFS889ZA	SPRING	[M]
239	RFS891ZA	SPRING	[M]
240	RFB112ZA	BELT	[M]
241	RFB119ZA	BELT	[M]
242	RFS890ZA	SPRING PLATE	[M]
243	RFE260ZA	BUSH	
244	RFF84ZA	FLYWHEEL ASS'Y	[M]
245	RFY993ZA	CONNECT PLATE ASS'Y	[M]

Ref No.	Part No.	Part Name & Description	Remarks
246	RFY994ZA	PAUSE ARM ASS'Y	[M]
247	RFY995ZA	CONNECT ARM	[M]
248	RFY996ZA	LOCK ARM	[M]
249	RFY997ZA	STOP ARM	[M]
250	RFS916ZA	SPRING	[M]
251	RFX40ZA	CS RING	
252	RFN223ZA	WASHER	[M]
253	RFD434ZA	MOTOR HOLDER	[M]
254	RFE540ZA	SCREW	[M]
255	RFD419ZA	SPRING DR PLATE	[M]
256	RFD425ZA	HOLDER	[M]
257	RFE414ZA	SCREW	
258	RFD414ZA	PROTECT REC PLATE	[M]
260	RFE541ZA	WIRE ASS'Y	[M]
263	RFE542ZA	WIRE ASS'Y	[M]
264	RFM180ZA	MOTOR ASS'Y	[M]
266	RFE543ZA	SCREW	[M]
267	RFE261ZA	BUSH SCREW	
269	RFE528ZA	SCREW	[M]
270	RFE544ZA	SCREW	[M]
271	RFE545ZA	SCREW	[M]
272	RFE306ZA	SCREW	
273	RFE309ZA	SCREW	
274	RFN162ZA	WASHER	
275	RFN163ZA	WASHER	
276	RFN224ZA	WASHER	[M]
277	RFN168ZA	WASHER	
278	RFN225ZA	WASHER	[M]
279	RGU0457-K	BUTTONS	[M]
280	RFY998ZA	MODE ARM	[M]
281	RFD435ZA	MODE HOLDER	[M]
282	RGU0456-K	BUTTONS	[M]
283	RMC0076	R/P PLATE SPRING	[M]
284	XTN2+4F	SCREW	
285	RFS627ZA	SPRING	
286	RFE550ZA	PLATE LUG	[M]
287	RFE551ZA	SCREW	[M]

■ CABINET PARTS LOCATION



■ REPLACEMENT PARTS LIST

Notes : *Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
*Bracketed indications in Remarks columns specify the area (Refer to the first page for area).
Parts without these indications can be used for all areas.
*[M] Indicates in the remarks columns indicates parts that are supplied by **MESA**.

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	XEARR225DA-Y	TELESCOPIC ANTENNA	
2	RML0169-1	R/P LEVER	[M]
3	RMK0091-K1	G. EQ. CHASSIS	[M]
5	RFKNXFT560P2	TRANS SHIELD PLATE ASS'Y(B)	[M]
6	XYN3+F8FY	SCREW	
7	XTV3+12G-M	SCREW	
8	XTN3+20G-M	SCREW	
9	XYN26+C6	SCREW	
10	RKK318ZC-0	BATTERY COVER	[M]
11	RBD563ZA-0	KNOB, FUNCTION/MODE	[M]
12	RBD566ZB-0	KNOB, G. EQ.	[M]
13	RGU0365-R	BUTTON, XBS	[M]
14	RGV0046-K	KNOB, VOLUME	[M]
15	REX0284-2	POWER CONNECTOR	[M]
16	RBD564ZA-0	KNOB, BAND	[M]
17	RJP2G9YA	CONNECTOR (2P)	
18	RFKHXFT560EK	BACK CABINET ASS'Y	(E),[M]
18	RFKHXFT560EB	BACK CABINET ASS'Y	(EB),[M]
18	RFKHXFT560EG	BACK CABINET ASS'Y	(EG),[M]
18A	RJC931ZC	BATTERY TERMINAL (+,-)	
19	XTC3+10CFN	SCREW	
20	RKX402ZA-0	HANDLE ARM	[M]
21	RKH0011-K1	HANDLE BAR	[M]
22	RDG5874ZB	DAMPER GEAR	[M]
23	RFKLXFT560P1	CASSETTE LID ASS'Y (L)	[M]
24	RFKLXFT560P2	CASSETTE LID ASS'Y (R)	[M]
25	EAS10P532K-G	SPEAKER	[M]
27	RMB0115	CASSETTE OPEN SPRING	[M]
28	XTV3+10G	SCREW	

Ref No.	Part No.	Part Name & Description	Remarks
29	RMK0111-1	DIAL CHASSIS	
30	RGJX0003-W	POINTER	[M]
31	RGXX0004-K	KNOB, TUNING	[M]
32	RJM164YA	MICROPHONE	[M]
33	RJS7M3ZA	CONNECTOR (7P)	[M]
34	RJP3G4YA	CONNECTOR (3P)	
35	RJP4G18ZA	CONNECTOR (4P)	
36	RJP5G18ZA	CONNECTOR (5P)	
37	RJP7G11ZA	CONNECTOR (7P)	
38	RMC228ZA	PRE-SHIELD PLATE	
39	RMP287ZA	LED HOLDER	
40	RJS5T5ZA	CONNECTOR (5P)	
41	RMY242ZA	HEAT SINK	[M]
42	XTV3+8F	SCREW	
43	RMBX0002	BATTERY SPRING	[M]
44	RFKGXFT560EK	FRONT CABINET ASS'Y	(E,EB), [M]
44	RFKGXFT560EG	FRONT CABINET ASS'Y	(EG), [M]
44A	RAT0004	TWEETER	[M]
45	RGQ0040A-K1	COVER CHASSIS	[M]
46	RJF28ZA	FUSE HOLDER	
48	RUW214ZA	SPRING	[M]
49	REX0183-1	SPEAKER CONNECTOR WIRE	[M]
51	RJR0055	ANTENNA TERMINAL	[M]
52	REX0269-2	R/P HEAD WIRE UNIT	[M]
53	REX0309-1	LEAF SWITCH WIRE LEAD	[M]
54	RDG5958ZA	VC GEAR	[M]
55	RJS6T5ZA	CONNECTOR	
57	RJP2G4YA	PLUG (2P)	
58	RJP4G4YA	SOCKET (4P)	
62	RJB0399F	P.C.B.	[M]
63	RJB0396H-1	P.C.B.	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT (S)	
IC 1	AN 7205	IC, FM FRONT END	
IC 2	RVIBA4236L	IC, FM/AM IF AMP	

Ref No.	Part No.	Part Name & Description	Remarks
IC 3	RVIBA1332L	IC, FM MPX	
IC 301	BA3310N	IC, REC/EQ AMP	
IC 302	RVILA4108R	IC, POWER	
IC 370	AN7330K	IC, GRAPHIC EQUALISER AMP	

Ref No.	Part No.	Part Name & Description	Remarks
		TRANSISTORS (S)	
Q 1	2SC829BTA	TRANSISTOR	
Q101	2SC1684STA	TRANSISTOR	
Q102	2SC1684RTA	TRANSISTOR	
Q103	2SC1684RTA	TRANSISTOR	
Q104	2SC2001K1TA	TRANSISTOR	
Q201	2SC1684STA	TRANSISTOR	
Q202	2SC1684RTA	TRANSISTOR	
Q203	2SC1684RTA	TRANSISTOR	
Q204	2SC2001K1TA	TRANSISTOR	
Q301	2SC1684RTA	TRANSISTOR	
Q302	2SC1684RTA	TRANSISTOR	
Q303	2SA564RTA	TRANSISTOR	
Q304	2SC1684RTA	TRANSISTOR	
Q308	2SC20001K1TA	TRANSISTOR	
Q309	BA1A4MTA	TRANSISTOR	[M]
Q312	BN1L3NTA	TRANSISTOR	[M]
Q313	2SC20001K1TA	TRANSISTOR	
Q350	2SA564RTA	TRANSISTOR	
Q401	2SK301QTA	TRANSISTOR (FET)	[M]
Q402	2SC1684STA	TRANSISTOR	
		VARIABLE RESISTORS (S)	
VR 1	RVNCA14B1T-A	VR, FM VCO	[M]
VR371	RRV20T02G54A	VR, G. EQ. (100Hz)	[M]
VR372	RRV20T02G54A	VR, G. EQ. (1 KHz)	[M]
VR373	RRV20T02G54A	VR, G. EQ. (10 KHz)	[M]
VR374	RRV20R01B54A	VR, VOLUME	[M]
VR401	EVNDXAA00B53	VR, TAPE SPEED	
		CERAMIC FILTER (S)	
CF1	RVF107WDZT	CERAMIC FILTER	
CF2	RVFSFZ459JL	CERAMIC FILTER	[M]
		SWITCH (ES)	
S 1	RSS4H04XA-H	SW, BAND	[M]
S301	RSS3B45XA-H	SW, EDITING	[M]
S302	RSH2F18ZA-A	SW, R/P	
S303	RSS3D001-H	SW, SELECTOR	[M]
S305	RFA102ZA	SW, DECK(1) PLAY	[M]
S306	RFA99ZA	SW, DECK(1) MOTOR	[M]
S307	RFA101ZA	SW, DECK(2) MOTOR	[M]
S370	ESB6483	SW, XBS	[M]
S501⚠	RJJ1SE01-H	JACK W/SW AC IN (J3)	

Ref No.	Part No.	Part Name & Description	Remarks
		VARIABLE CAPACITORS (S)	
VC1	RCV4RC2V2K-M	VARIABLE CAPACITOR	
CT2	ECRLA030E53R	TRIMMING CAPACITOR	
CT3	ECRLA020E53R	TRIMMING CAPACITOR	
CT4	ECRLA010A53R	TRIMMING CAPACITOR	
		DIODE (S)	
D1	RVD1SS133	DIODE	
D304	RVDMTZ6R8BTA	DIODE	
D307	RVD1SS133	DIODE	
D308	RVD1SS133	DIODE	
D312	RVD1SS133	DIODE	
D317	RVDSLB55VR	LED	[M]
D350	RVD1SS133	DIODE	
D401	RVD1SS133	DIODE	
D450	RVD1SS133	DIODE	
D501	RVD1SR35	DIODE	
D502	RVD1SR35	DIODE	
D503	RVD1SR35	DIODE	
D504	RVD1SR35	DIODE	
D505	RVD1SR35	DIODE	
D506	RVD1SR35	DIODE	
		FUSE (S)	
F1 ⚠	XBA2C16TB0	FUSE	
		COIL (S) & TRANSFORMER(S)	
L 2	RLQY30S1W	COIL	[M]
L 4	RLD4Y53W	COIL	(E,EB) [M]
L 4	RL04N233-0	COIL	(EG) [M]
L 5	RLF6W9-0Z	COIL, ANTENNA	[M]
L 6	RLQY30S4W	COIL	[M]
L 7	RLA3B41-M	COIL, ANTENNA	
L 8	RL01B13-M	COIL, OSC	
L 9	RL02B108-M	COIL, OSC	
L 10	RLA3B41-M	COIL, ANTENNA	
T 1	RLI4B153-M	FM I.F. TRANSFORMER	
T 2	RLI2B153-M	AM I.F. TRANSFORMER	
T 3	RLI4B153-M	FM I.F. TRANSFORMER	
T301	RL09B17-T	TRANSFORMER	
T501⚠	RTP1L1E005-X	POWER TRANSFORMER	(E,EG), [M]
T501⚠	RTP1L1B003-X	POWER TRANSFORMER	(EB),[M]

Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIAL (S)	
P1	RPH658ZB	MIRAMAT SHEET	[M]
P2	RPGX0002	GIFT BOX	[M]
P3	RPN0323	POLYFOAM	[M]
		JACK (S)	
J1	RJF1099ZA	JACK, CD/LINE	

Ref No	Part No.	Part Name & Description	Remarks
J2	RJJD7S2YA-C	JACK, H.P.	
J3 ⚠	RJJ1SE01-H	JACK, AC IN (S501)	
		ACCESSORIES	
A1	RQT1259-G	1NSTRUCTION MANUAL	(EB,EG), [M]
A1	RFKSXFT560EK	INSTRUCTION MANUAL ASS'Y	(E), [M]
A2 ⚠	RJA20ZD-U	AC POWER SUPPLY CORD	(E,EG), [M]
A2 ⚠	RJA86ZB-K	AC POWER SUPPLY CORD	(EB)

■ RESISTORS & CAPACITORS

Notes : * Capacitance values are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)
* Bracketed indications in Ref No. columns specify the area. (Refer to the first page for area)

Ref No.	Part No.	Values & Remarks
		RESISTORS
R1	ERDS2TJ330T	33 1/4W
R2	ERDS2TJ101T	100 1/4W
R3	ERDS2TJ8R2T	8.2 1/4W
R4	ERDS2TJ334T	330K 1/4W
R5	ERDS2TJ471T	470 1/4W
R6	ERDS2TJ221T	220 1/4W
R7	ERDS2TJ470T	47 1/4W
R8	ERDS2TJ332T	3.3K 1/4W
R9	ERDS2TJ153T	15K 1/4W
R10	ERDS2TJ562T	5.6K 1/4W
R11	ERDS2TJ562T	5.6K 1/4W
R12	ERDS2TJ821T	820 1/4W
R13	ERDS2TJ821T	820 1/4W
R14	ERDS2TJ822T	8.2K 1/4W
R15	ERDS2TJ102T	1K 1/4W
R16	ERDS2TJ680T	68 1/4W
R17	ERDS2TJ272T	2.7K 1/4W
R18	ERDS2TJ563T	56K 1/4W
R19	ERDS2TJ680T	68 1/4W
R20	ERDS2TJ222T	2.2K 1/4W
R21	ERDS2TJ822T	8.2K 1/4W
R22	ERDS2TJ151T	150 1/4W
R100	ERDS2TJ101T	100 1/4W
R101	ERDS2TJ335T	3.3M 1/4W
R102	ERDS2TJ470T	47 1/4W
R103	ERDS2TJ273T	27K 1/4W
R104	ERDS2TJ152T	1.5K 1/4W
R105	ERDS2TJ153T	15K 1/4W
R106	ERDS2TJ152T	1.5K 1/4W
R107	ERDS2TJ122T	1.2K 1/4W
R108	ERDS2TJ472T	4.7K 1/4W

Ref No.	Part No.	Values & Remarks
R109	ERDS2TJ273T	27K 1/4W
R110	ERDS2TJ473T	47K 1/4W
R111	ERDS2TJ221T	220 1/4W
R113	ERDS2TJ272T	2.7K 1/4W
R114	ERDS2TJ104T	100K 1/4W
R116	ERDS2TJ391T	390 1/4W
R117	ERDS2TJ103T	10K 1/4W
R118	ERDS2TJ153T	15K 1/4W
R119	ERDS2TJ821T	820 1/4W
R120	ERDS2TJ473T	47K 1/4W
R121	ERDS2TJ472T	4.7K 1/4W
R122	ERDS2TJ472T	4.7K 1/4W
R123	ERDS2TJ2R2T	2.2 1/4W
R124	ERDS2TJ121T	120 1/4W
R170	ERDS2TJ102T	1K 1/4W
R171	ERDS2TJ472T	4.7K 1/4W
R172	ERDS2TJ154T	150K 1/4W
R173	ERDS2TJ103T	10K 1/4W
R174	ERDS2TJ103T	10K 1/4W
R175	ERDS2TJ332T	3.3K 1/4W
R176	ERDS2TJ103T	10K 1/4W
R177	ERDS2TJ224T	220K 1/4W
R178	ERDS2TJ561T	560 1/4W
R179	ERDS2TJ561T	560 1/4W
R200	ERDS2TJ101T	100 1/4W
R201	ERDS2TJ335T	3.3M 1/4W
R202	ERDS2TJ470T	47 1/4W
R203	ERDS2TJ273T	27K 1/4W
R204	ERDS2TJ152T	1.5K 1/4W
R205	ERDS2TJ153T	15K 1/4W
R206	ERDS2TJ152T	1.5K 1/4W
R207	ERDS2TJ122T	1.2K 1/4W
R208	ERDS2TJ472T	4.7K 1/4W
R209	ERDS2TJ273T	27K 1/4W

Ref No.	Part No.	Values & Remarks
R210	ERDS2TJ473T	47K 1/4W
R211	ERDS2TJ221T	220 1/4W
R213	ERDS2TJ272T	2.7K 1/4W
R214	ERDS2TJ104T	100K 1/4W
R216	ERDS2TJ391T	390 1/4W
R217	ERDS2TJ103T	10K 1/4W
R218	ERDS2TJ153T	15K 1/4W
R219	ERDS2TJ821T	820 1/4W
R220	ERDS2TJ473T	47K 1/4W
R221	ERDS2TJ472T	4.7K 1/4W
R222	ERDS2TJ472T	4.7K 1/4W
R223	ERDS2TJ2R2T	2.2 1/4W
R224	ERDS2TJ121T	120 1/4W
R270	ERDS2TJ102T	1K 1/4W
R271	ERDS2TJ472T	4.7K 1/4W
R272	ERDS2TJ154T	150K 1/4W
R273	ERDS2TJ103T	10K 1/4W
R274	ERDS2TJ103T	10K 1/4W
R275	ERDS2TJ332T	3.3K 1/4W
R276	ERDS2TJ103T	10K 1/4W
R277	ERDS2TJ224T	220K 1/4W
R278	ERDS2TJ561T	560 1/4W
R279	ERDS2TJ561T	560 1/4W
R301	ERD22TJ332T	3.3K 1/4W
R302	REDS2TJ334T	330K 1/4W
R303	ERDS2TJ102T	1K 1/4W
R304	ERDS2TJ6R8T	6.8 1/4W
R305	ERDS2TJ561T	560 1/4W
R306	ERDS2TJ332T	3.3K 1/4W
R307	ERDS2TJ104T	100K 1/4W
R308	ERDS2TJ562T	5.6K 1/4W
R309	ERDS2TJ101T	100 1/4W
R310	ERDS2TJ224T	220K 1/4W
R311	ERDS2TJ333T	33K 1/4W

Ref No.	Part No.	Values & Remarks
R312	ERDS2TJ561T	560 1/4W
R313	ERDS2TJ6R8T	6.8 1/4W
R314	ERDS2TJ102T	1K 1/4W
R315	ERDS2TJ471T	470 1/4W
R316	ERDS2TJ472T	4.7K 1/4W
R323	ERDS2TJ680T	68 1/4W
R325	ERDS2TJ395T	3.9M 1/4W
R327	ERDS2TJ474T	470K 1/4W
R328	ERDS2TJ471T	470 1/4W
R329	ERDS2TJ680T	68 1/4W
R330	ERDS2TJ681T	680 1/4W
R331	ERDS2TJ222T	2.2K 1/4W
R332	ERDS2TJ101T	100 1/4W
R342	ERDS2TJ680T	68 1/4W
R370	ERDS2TJ221T	220 1/4W
R385	ERDS2TJ103T	10K 1/4W
R401	ERDS2TJ183T	18K 1/4W
R402	ERDS2TJ822T	8.2K 1/4W
R403	ERDS2TJ102T	1K 1/4W
R404	ERDS2TJ303T	30K 1/4W
R406	ERDS2TJ105T	1M 1/4W
R407	ERDS2TJ472T	4.7K 1/4W
R408	ERDS2TJ332T	3.3K 1/4W
R409	ERDS2TJ104T	100K 1/4W
R450	ERDS2TJ224T	220K 1/4W
R451	ERDS2TJ472T	4.7K 1/4W
R501	ERG2ANJP820S	82 2W
		CAPACITORS
C1	ECBT1H120JC5	12P 50V
C2	ECBT1H270J5	27P 50V
C3	ECBT1H470J5	47P 50V
C4	ECBT1H100JC5	10P 50V
C5	ECBT1H390J5	39P 50V
C6 (E,EB)	ECBT1H4R7KC5	4.7P 50V
C6 (EG)	ECBT1H5R6KC5	5.6P 50V
C7	ECBT1H3R3KC5	3.3P 50V
C9 (E,EB)	ECBT1H180JC5	18P 50V
C9 (EG)	ECBT1H200JC5	20P 50V
C10	ECBT1H102KB5	0.001 50V
C11	ECBT1H102KB5	0.001 50V
C12	ECFR1C223MR	0.022 16V
C13	ECBT1H4R7KC5	4.7P 50V
C14	ECBT1H180JC5	18P 50V
C15	ECBT1H470J5	47P 50V
C16 (E,EB)	ECBT1H150JC5	15P 50V
C16 (EG)	ECCR1H180KS5	18P 50V
C17	ECBT1H102KB5	0.001 50V

Ref No.	Part No.	Values & Remarks
C19	ECBT1H200JC5	20P 50V
C20	ECBT1H100JC5	10P 50V
C21	ECBT1C103NS5	0.01 16V
C22	ECQP2A221JZT	220P 100V
C23	ECQP2A361JZT	360P 100V
C24	ECQP1392JZ	0.0039 100V
C25	ECQP2A151JZT	150P 100V
C26	ECBT1H102KB5	0.001 50V
C27	ECFR1C223MR	0.022 16V
C28	ECEA1HU2R2B	2.2 50V
C29	ECFR1C223MR	0.022 16V
C30	ECFR1C223MR	0.022 16V
C31	ECBT1H331KB5	330P 50V
C32	ECFR1C223MR	0.022 16V
C33	ECEA0JU101B	100 6.3V
C34	ECBT1C103MS5	0.01 16V
C35	ECFR1C223MR	0.022 16V
C36	ECBT1C103MS5	0.01 16V
C37	ECEA1HU010B	1 50V
C38	ECEA1CU100B	10 16V
C39	ECEA0JU101B	100 6.3V
C40	ECBT1C103MS5	0.01 16V
C41	ECQP1H102JZ3	0.001 50V
C42	ECEA1HUR47B	0.47 50V
C43	ECEA1HUR47B	0.47 50V
C44	ECEA1HU2R2B	2.2 50V
C45	ECBT1H102KB5	0.001 50V
C101	ECBT1H101KB5	100P 50V
C102	ECEA1HU010B	1 50V
C103	ECBT1H471KB5	470P 50V
C104	ECFR1C104JR	0.1 16V
C105	ECBT1H102KB5	0.001 50V
C106	ECEA1HU010B	1 50V
C107	ECFR1C153MR	0.015 16V
C108	ECBT1H102KB5	0.001 50V
C109	ECBT1H330J5	33P 50V
C110	ECEA0JU101B	100 6.3V
C111	ECEA1HU010B	1 50V
C112	ECBT1C103MS5	0.01 16V
C114	ECEA1HU0R1B	0.1 50V
C116	ECBT1C472MR5	0.0047 16V
C117	ECEA0JU101B	100 6.3V
C118	ECBT1C103NS5	0.01 16V
C119	ECEA1AU470B	47 10V
C120	ECFR1C473MR	0.047 16V
C121	ECEA1AU102B	1000 10V
C122	ECFR1C683MR	0.068 16V
C123	ECBT1H100JC5	10P 50V
C170	ECEA1CU100B	10 16V
C171	ECEA1HU010B	1 50V

Ref No.	Part No.	Values & Remarks
C172	ECBT0J153MS5	0.015 6.3V
C173	ECEA1HU0R1B	0.1 50V
C174	ECBT1C152MR5	0.0015 16V
C175	ECEA1HUR47B	0.47 50V
C176	ECQV1H184JZ3	0.18 50V
C177	ECEA1HUR22B	0.22 50V
C178	ECEA1HU010B	1 50V
C179	ECEA1HU010B	1 50V
C180	ECEA1HU010B	1 50V
C181	ECBT1H681KB5	680P 50V
C182	ECFR1C104MR	0.1 16V
C183	ECBT1H102KB5	0.001 50V
C201	ECBT1H101KB5	100P 50V
C202	ECEA1HU010B	1 50V
C203	ECBT1H471KB5	470P 50V
C204	ECFR1C104JR	0.1 16V
C205	ECBT1H102KB5	0.001 50V
C206	ECEA1HU010B	1 50V
C207	ECFR1C153MR	0.015 16V
C208	ECBT1H102KB5	0.001 50V
C209	ECBT1H330J5	33P 50V
C210	ECEA0JU101B	100 6.3V
C211	ECEA1HU010B	1 50V
C212	ECBT1C103MS5	0.01 16V
C214	ECEA1HU0R1B	0.1 50V
C216	ECBT1C472MR5	0.0047 16V
C217	ECEA0JU101B	100 6.3V
C218	ECBT1C103NS5	0.01 16V
C219	ECEA1AU470B	47 10V
C220	ECFR1C473MR	0.047 16V
C221	ECEA1AU102B	1000 10V
C222	ECFR1C683MR	0.068 16V
C223	ECBT1H100JC5	10P 50V
C270	ECEA1CU100B	10 16V
C271	ECEA1HU010B	1 50V
C272	ECBT0J153MS5	0.015 6.3V
C273	ECEA1HU0R1B	0.1 50V
C274	ECBT1C152MR5	0.0015 16V
C275	ECEA1HUR47B	0.47 50V
C276	ECQV1H184JZ3	0.18 50V
C277	ECEA1HUR22B	0.22 50V
C278	ECEA1HU010B	1 50V
C279	ECEA1HU010B	1 50V
C280	ECEA1HU010B	1 50V
C281	ECBT1H681KB5	680P 50V
C282	ECFR1C104MR	0.1 16V
C283	ECBT1H102KB5	0.001 50V
C301	ECBT1H101KB5	100P 50V
C302	ECEA0JU221B	220 6.3V
C303	ECFR1C223MR	0.022 16V

Ref No	Part No.	Values & Remarks	
C304	ECBT1H102KB5	0.001	50V
C305	ECFR1C104MR	0.1	16V
C306	ECEA1HU010B	1	50V
C307	ECEA1CU100B	10	16V
C308	ECKR1H181KB5	180P	50V
C309	ECKR1H331KB5	330P	50V
C310	ECQP1272JZ	0.0027	100V
C311	ECEA0JU221B	220	6.3V
C312	ECFR1C223MR	0.022	16V
C313	ECBT1C103MS5	0.01	16V

Ref No.	Part No.	Values & Remarks	
C322	ECEA1HU2R2B	2.2	50V
C323	ECEA1CU100B	10	16V
C324	ECEA1AU221B	220	10V
C326	ECBT1C103NS5	0.01	16V
C327	ECEA1AU221B	220	10V
C328	ECEA1CU100B	10	16V
C332	ECEA1EU222E	2200	25V
C334	ECEA0JU471B	470	6.3V
C335	ECKR1H103MD5	0.01	50V
C336	ECEA1EU221B	220	25V

Ref No.	Part No.	Values & Remarks	
C337	ECEA1CU100B	10	16V
C370	ECEA1AU221B	220	10V
C401	ECEA1EU330B	33	25V
C402	ECEA1EU221B	220	25V
C403	ECEA1EU330B	33	25V
C501	ECKR1H103ZF5	0.01	50V
C502	ECKR1H103ZF5	0.01	50V
C503	ECKR1H103ZF5	0.01	50V
C504	ECKR1H103ZF5	0.01	50V
C505	ECEA1EU221B	220	25V

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